

BARAT, I. [LYC]

"For the Prevention of Accidents in the Communication System; Remarks on the Article  
"Some Points of View in Preventing Accidents in the Communication System" by Aladar  
Madarasz and Bela Torjai." p. 418, (KOZLEKEDESTUDOMANYI SZEMLE, Vol. 3, no. 11/12,  
Nov./Dec. 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954/Unclassified

BARAT, I.Ye, kandidat tekhnicheskikh nauk; PLAVINSKIY, V.I., kandidat tekhnicheskikh nauk; GLADKIY, V.F., inzhener, retsenzent; OSTOL'SKIY, Vs.I., kandidat tekhnicheskikh nauk, redaktor; TIKHONOV, A.Ya. tekhnicheskiiy redaktor

[Cable cranes] Kabel'nye krany. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 347 p. (MLRA 7:10)  
(Cranes, derricks, etc.)

BARAT, I.Ye., kandidat tekhnicheskikh nauk.

Travelling cable cranes. Mekh.trud.rab.9 no.11:42-44 N '55.  
(Cranes, derricks, etc.) (MLRA 9:2)

BARAT, Iosif Yefimovich, kandidat tekhnicheskikh nauk; BARSHEV, Vladimir Nikolayevich, inzhener; BOGUSLAVSKIY, Vladimir Konstantinovich, kandidat tekhnicheskikh nauk; D'YACHKOV, Vladimir Konstantinovich, kandidat tekhnicheskikh nauk; KORNEYEV, Grigoriy Kuz'mich, kandidat tekhnicheskikh nauk; KUZNETSOV, Leonid Vasil'yevich, inzhener; MEKLER, Abram Grigor'yevich, kandidat tekhnicheskikh nauk; NIKOLAYEVSKIY, Georgiy Matveyevich, kandidat tekhnicheskikh nauk; NIKONOV, German Pavlovich, inzhener; OLEKHNOVICH, Angelina Iosifovna, inzhener; SEGAL', Il'ya Samoylovich, kandidat tekhnicheskikh nauk; SPITSINA, Irina Osipovna, kandidat tekhnicheskikh nauk; GORA, V.Ye., inzhener, retsenzent; SPIVAKOVSKIY, A.O., professor, redaktor; BURMISTROV, P.I., kandidat tekhnicheskikh nauk, redaktor; MARTENS, S.L., inzhener, redaktor; MATVEYEVA, Ye.N., tekhnicheskii redaktor; TIKHANOV, A.Ya., tekhnicheskii redaktor

[Present-day hoisting and conveying technology in foreign countries; a survey of the literature] Sovremennaya pod'emno-transportnaya tekhnika za rubezhom; obzor literatury. Pod red. A.O.Spivakovskogo i dr. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1957. (MLRA 10:6)  
306 p.

1. Chlen-korrespondent Akademii nauk SSSR (for Spivakovskii)  
(Hoisting machinery)

SCV-119-58-10-11/16

AUTHORS: Barat, I. Ye., Candidate of Technical Sciences and Novikova,  
L.V., Engineer

TITLE: Dumping Cableways (otval'nyye kanatnyye dorogi)

PERIODICAL: Mekhnizatsiya trudoyemkikh i tyazhëlykh rabot, 1958,  
Nr 10, pp 35 - 39 (USSR)

ABSTRACT: Various types of suspended cableways, used for the transportation of rocks extracted from mines to the dumping terraces, are described. There are 3 diagrams, 1 classification chart and 1 graph.

1. Mining equipment--USSR 2. Rock--Handling

Card 1/1

BARAT, I.Ye.; D'YACHKOV, V.K.; MEKLER, A.G.; NIKOLAYEVSKIY, G.M.; OLEYNIK, A.M.; SEGAL', I.S.; SPITSINA, I.O.; PLAVINSKIY, V.I., red.; CHANGLI, I.I., red.; OSIPOVA, L.A., red. izd-va; TIKHANOV, A.Ya., tekhn. red.

[Present state of the hoisting and conveying machinery industry] Sovremennoe sostoyanie pod'emno-transportnogo mashinostroeniya. By Kollektiv sovetskikh, chekhoslovatskikh i nemetskikh avtorov. Moskva, Mashgiz; Prague, SNTL; Berlin, VT, 1961. 420 p. (MIRA 14:11)  
(Hoisting machinery) (Conveying machinery)

BARAT, I.Ye., kand. tekhn. nauk; PLAVINSKIY, V.I., kand. tekhn.  
nauk; Prinizial uchastiye MELEK, A.G., kand. tekhn.  
nauk; ROMBERG, A.A., prof., retsident

[Cable cranes] Kabel'nye kran'y. Moskva, Mashinostroyeniye,  
1964. 340 p. (SIFA 10:1)

BARAMIDZE, Konstantin Moyseyevich; KOGAN, Iosif Yakovlevich; BARAT, I.Ye.,  
kand.tekhn.nauk, retsenzent; MEKLER, A.G., kand.tekhn.nauk,  
retsenzent; KASTAL'SKIY, A.A., inzh., red.; NAKHIMSON, V.A.,  
red.izd-va; SMIRNOVA, G., tekhn.red.

[Suspended passenger cable railroads] Passazhirskie podvesnye  
kanatnye dorogi. Moskva, Mashgiz, 1962. 215 p. (MIRA 15:4)

(Railroads, Cable)



BARAT, J.

"Computers and the automatic control of industrial processes"  
by V.M.Gluskov. Reviewed by J. Barat. Meres automat 12 no. 7:  
233 '64.

BARAT, János

Digital ferrite-transistor circuits. Meres automat 9 no.11:337-342  
'61.

1. Magyar Tudományos Akademia Automatizalasi Kutato Laboratorium.

BARAT, Janos

Digital autonomous systems. Meres automat 10 no.11/12:353-357 '62.

1. Magyar Tudomanyos Akademia Automatizalasi Kutato Laboratorium tudomanyos segedmunkatarsa.

BARAT, Janos

Introduction to the analysis and synthesis of digital logical circuits.  
Meres automat 10 no.10:298-303 '62.

1. Magyar Tudományos Akademia Automatizalasi Kutato Laboratorium  
tudományos munkatarsa.

BARAT, J.

Iterative switching circuits from combinative circuits. Meres  
Automat 11 no.7:216 '63.

LANDA, L.N.; BARAT, Janos [translator]

Application of mathematical logic in the field of certain didactic problems. Magy pszichol szemle 20 no.1:76-98 '63.

1. OSZSZSZK Neveléstudományi Akademiájának Neveléselméleti és Neveléstörténeti Intézete, Moszkva (for Landa).

WIENER, H.J., MUDr; HLAVACOVA, Alena, MUDr; BARAT, Jozef, MUDr

Organization of dispensarization for malignant neoplasms in  
Skalica district. Cesk.gyn. 20 no.2:135-137 Mar 55.

1. Gyn. -por. odd. ONKZ Skalica.  
(NEOPLASMS, prevention and control,  
in Czech., dispensary serv.)  
(OUTPATIENT SERVICE,  
in Czech., dispensaries for prev. of cancer)

BARAT, Jozsef (Budapest); TOTH, Pal (Budapest)

Mechanical nomogram for the determination of the temperature  
advection of free atmosphere. Idojaras 65 no.6:333-338 D '61.



BARAT, Jozsef; CZELNAI, Rudolf

Notes on the ventilation of psychrometers. Orsz meteor int  
besz tud kut 25:338-343 '61 (publ.'62).

BARAT, T.; NAKO, A.

Data on the technic of vestibular cold-warm stimulation; calorigram  
proposition. *Magy. sebeszet* 4 no.4:301-305 1951. (CINL 21:4)

1. Doctors. 2. Nose-Throat-Ear Clinic (Director--Prof. Dr. Gyula  
Varga) of Budapest Medical University.

EXCERPTA MEDICA Sec.11 Vol.10/2 Oto-Rhino-Laryngo Feb57  
BARÁT T.

233. BARÁT T. and LITVAY E. A Budapesti Péterfy Sándor Utcai Kórház Fül-  
Orr-Gégeosztályának és Gyermekosztályának Közl. \*Capillar-mikroszkópos  
vizsgálatok vestibularis ingerlés után. Capillary-microscopic exa-  
minations after vestibular stimulation FÜLL-ORR-GÉGE-GY.  
1956, 2 (73-76) Graphs 1

Capillary-microscopic investigations were carried out to make clear if the experi-  
mental stimulation of the vestibular system acts on the capillary circulation. As

233

an indicator for the researches the rapidity of streaming measured in the capillaries of the limbus of the finger was used. In 30 healthy persons, aged 16-50 yr., with an intact hearing organ the rapidity of streaming, measured beforehand, was examined after cold stimulation (German-Veits) or after heat stimulation (Barát-Nákó). Both when cold stimulation and when heat stimulation were used the rapidity of streaming dropped to about half. From this the conclusion is drawn that vestibular stimulation exerts an influence on the capillary circulation and apparently always causes its slowing down.

BARAT, Z.

Hungarian Technical Abst.  
Vol. 6 No. 1  
1954

621.397.645  
39. Limits of TV signal and frequency transmission  
— *A televíziós jel és átviteli frekvenciahatárai* — *V. Z. BARÁT.*  
(Telecommunication Engineering — *Magyar Híradás-  
technika* — Vol. 4, 1953, No. 1-3, pp. 3-5, 2 figs.)

By using a line change system and AM transmission in black and white TV, the signals of stationary pictures can be expressed by periodic *Fourier* series. If a program of a  $k$  number of pictures is to be transmitted instead of a single image, the signal remains periodic but its frequency becomes  $\omega_1 = \omega/k$ . It can be proven that the highest frequency is identical in both cases. Further calculations show that the present 625-line frequency band of image transmission can be narrowed from 25 c/s — 6.52 Mc/s to 7.8 kc/s — 6.52 Mc/s. Gy. T.

54  
6.52 Mc/s

BARAT, ZOLTAN  
~~BARAT, ZOLTAN~~

PHASE I POST EXPLOITATION

POL/5921

Symposium on Electroacoustic Transducers. Krynica, 1958

Proceedings of the Symposium on Electroacoustic Transducers [held in] Krynica, 17-26 September, 1958. Warsaw, Państwowe Wydawnictwo Naukowe, 1961. 442 p. Errata slip inserted. 630 copies printed.

Sponsoring Agency: Polish Academy of Sciences. Institute of Basic Technical Problems.

Ed. in Chief: Janusz Kasprowski, Doctor of Sciences; Editing Committee: Ignacy Malecki, Professor, Doctor of Sciences, Mieczyslaw Pajewski, Doctor; and Jerry Wehr, Master of Sciences; Secretary: Julianz Hierzajewski.

PURPOSE: This book is intended for physicists and acoustical engineers.

COVERAGE: The book is a collection of detailed research papers constituting the proceedings of a conference held in Krynica from 17 to 26 September 1958 under the auspices of the Institute of Technical Problems, Polish Academy of Sciences.

Card 1/8

Symposium on Electroacoustic Transducers

FCI/5981

The following basic problems are treated: 1) theoretical research on energy transformation processes; 2) experimental development of new types of transducers; 3) electroacoustic measurements; 4) technology of piezoelectric and magnetoelectric materials; 5) construction of transducers for technical needs; and 6) design of electroacoustic transducer systems. No personalities are mentioned. References (if any) follow the individual articles.

TABLE OF CONTENTS:

|                                                                                                                                                                                     |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Preface                                                                                                                                                                             | 3 |
| Problems of Research Work on Electroacoustic Transducers. Ignacy Malecki, President of the Conference                                                                               | 5 |
| Ch. 1. General Problems and Theory of Electroacoustic Transducers                                                                                                                   |   |
| 1. Classification of electromechanical transformation methods in the light of the tasks faced with [sic] the design and construction of electroacoustic equipment. V. S. Grigor'yev | 7 |

Card 2/8

Symposium on Electroacoustic Transducers

POL/5981

- |                                                                                                                                      |    |
|--------------------------------------------------------------------------------------------------------------------------------------|----|
| Ch. 3. Design and Properties of Electroacoustic Transducers                                                                          |    |
| 28. Intermodulation distortion in loudspeakers. Joseph Merhaut                                                                       | 30 |
| 29. On the behavior of second-order gradient microphones in the near field. Carl Feik                                                | 31 |
| 30. Certain problems of loudspeakers in stereophony and pseudo-stereophony. Wacław Koltonski                                         | 32 |
| 31. Possibilities of increasing the efficiency of electromechanical transducers applied to electrodynamic loudspeakers. Zoltan Barat | 33 |
| 32. Methods for mechanical damping of dynamic loudspeakers by the application of porous materials. L. Keibs                          | 34 |
| 33. Combined electroacoustic transducers with the directivity characteristic rotating azimuthally. Jerzy K. Skrzela                  | 35 |
| 34. Experimental research on the radial ultrasonic field of the cylindrical barium titanate transducer. T. Tarnoczy and A. Illenyi   | 36 |
| 35. Construction of up-to-date electroacoustic transducers. Stevan Milosavljevic                                                     | 37 |

Card 6/8



BARAT, L. A.

0 94. Barats, L. A. Gidravlicheskije raschety derezhnykh trub. Khar'kov  
Izd-vo Khar'k. un-ta, 1954. 36s. s chert.; 1 l. graf. 20 sm. (s-vo vyssh.  
sbrazovaniya SSSR. Khar'k avtomov. -- der. in-t). 800 ekz. Bespl. --(55-2804),  
625.745.2

30: Knizhnaya letopis' No. 6, 1958

ACCESSION NR: AR4039851

S/0044/64/000/004/B135/B135

SOURCE: Ref. zh. Matematika, Abs. 4B604

AUTHOR: Barataliyev. K. B.

TITLE: On an approximating method of solution of integro-differential equations.

CITED SOURCE: Sb. Materialy\* 7-y Nauchn. konferentsii Kafedry\* vyssh. matem. Frunzensk. politekhn. in-t. Frunze, 1963, 75-79

TOPIC TAGS: approximating method, solution method, differential equation, integro differential equation, boundary value problem, averaging coefficient method

TRANSLATION: An approximate solution of the boundary-value problem

$$R_j[y] \equiv \sum_{i=1}^{n-1} \{ \alpha_{ij} y^{(i)}(a) + \beta_{ij} y^{(i)}(b) \} - \gamma_j \quad (j=1, 2, \dots, n),$$

$$L[y] \equiv y^{(n)}(x) + \sum_{i=1}^n a_i(x) y^{(n-i)}(x) - f(x) +$$

$$+ \int_a^x \sum_{i=0}^m K_i(x, t) y^{(i)}(t) dt \quad (n > m), \quad (1)$$

Cord 1/2

ACCESSION NR: AR4039851

where  $y(x)$  is the unknown function, and the known functions occurring in (1) are defined and continuous on  $a \leq x, t \leq b$ , is constructed by a combination of the method of averaging the coefficients  $a_i(x)$  and the threading (Abstractors note: The only dictionary translations of the rare Russian word POROHKA (progonka) are: "threading die, screw die". The verb it comes from means "to drive away".) method. An estimate of the error is derived. In the form in which it is presented in the paper, the method is applicable to the case where, on each sub-interval  $[x_k, x_{k+1}] \subset [a, b]$  one can construct an approximate solution in closed form. A generalization of this method is presented by the author in R. Zh. Mat., 1963, 11B54. L. Krivosheyn

DATE ACQ: 15May64

SUB CODE: MA

ENCL: 00

Card 2/2

L 24144-65 EWT(d)<sup>4</sup> Pg-4 IJP(c)  
 ACCESSION NR: AR5000987

S/0044/64/000/009/B073/B073

SOURCE: Ref. zh. Matematika. Abs. 9B310

AUTHOR: Barataliyev, K. B.

TITLE: One approach to the approximate solution of integro-differential equations with variable coefficients 16

CITED SOURCE: Sb. Materialy 12-y Nauchn. konferentsii prof. -prepodavat. sos-tava Fiz.-matem. fak. Kirg. un-t. Sekts. matem. Frunze, 1964, 39-44

TOPIC TAGS: integral differential equation, variable coefficient, boundary value problem approximation

TRANSLATION: The boundary value problem (1) is solved by approximation

$$R_n[y] = \sum_{i=0}^{n-1} [a_{ik} y^{(k)}(a) + b_{ik} y^{(k)}(b)] - \gamma_k$$

$$(k=1, 2, \dots, n), \quad (1)$$

$$y^{(k)}(t) = \varphi_0^{(k)}(t) = \varphi_k(t) \quad (k=0, 1, 2, \dots, n-1; t \in a-b)$$

Card 1/2

L 24144-65

ACCESSION NR: AR5000987

for the linear integro-differential equation with retarded argument

$$y^{(n)}(t) + \sum_{i=0}^{n-1} [p_i(t) y^{(i)}(t) + g_i(t) y^{(i)}(t - \tau_i(t))] =$$

$$= r(t) + \lambda \int_a^t \sum_{i=0}^m [S_i(t, x) y^{(i)}(x) + Q_i(t, x) \times$$

$$\times y^{(i)}(x - \tau_i(x))] dx \quad (m < n). \quad (2)$$

To this effect, the coefficients  $p_i(t)$  on each of the subsegments are replaced by averaged values. Solving the successively obtained simplifications of the equation and utilizing the die method, the author constructs a function with  $n$  arbitrary constants which are eliminated due to the boundary conditions (1). This function is also used for the approximate solution of problem (1), (2). L. Krivoshein

SUB CODE: M.A

ENCL: 00

Card 2 / 2

L 31302-65 EWT(d) Pg-4 IJP(c)

ACCESSION NR: AR5004802

S/0044/64/000/011/B064/B064

SOURCE: Ref. zh. Matematika, Abs. 11B292

AUTHOR: Barataliyev, K. B.

TITLE: Solution of a system of integro-differential equations with deviating arguments and supplementary conditions

CITED SOURCE: Sb. Materialy 12-y Nauchn. konferentsii prof.-pre-podavat. sostava Fiz.-matem. fak. Kirg. un-t. Sekts. matem. Frunze, 1964, 80-83

TOPIC TAGS: integrodifferential equation, boundary value problem, Green function, integral equation, Chaplygin equation

TRANSLATION: The article gives a series of general results for the system of equations

Cord

1/2

L 31302-65

ACCESSION NR: AR5004802

$$\frac{dy}{dt} = f(t, y(t), y(t - \tau(t))) + \int_a^t F(t, s, y(s), y(s - \tau(s))) ds,$$

$$\tau(t) > 0,$$

The results pertain to the solution of the initial problem and also to the solution of the boundary-value problem for a specified initial function and for a specified linear relation between the initial and final values of the solution (stronger results are known for the initial problem). The boundary value problem is reduced with the aid of the Green's function to a nonlinear integral equation, to which the principle of contracted mapping is applied, and also the Chaplygin method. The formulated assumptions ensure the direct application of these methods. The sloppiness of the formulation and the lack of explanation of the notation make it difficult to read the paper.

SUB CODE: MA

ENCL: 00

Cord

2/2

L 54902-65 EWT(d) Pg-4 IJP(c)

ACCESSION NR: AR5016326

UR/0044/65/000/006/B094/B095  
518:517.948

SOURCE: Ref. zh. Matematika, Abs. 6B496

AUTHOR: Barataliyev, K. B.

TITLE: Approximate solution of integro-differential equations with deviated arguments

CITED SOURCE: Dokl. 3-y Sibirek. konferentsii po matem. i mekhan., 1964, Tomsk, Tomskiy un-t, 1964, 248-250

TOPIC TAGS: approximation calculation, integral equation, difference equation

TRANSLATION: The integro-differential equation with delaying argument

$$L(x) = \frac{d}{dt} \left( P \frac{dx}{dt} \right) - \lambda \left\{ \frac{d}{dt} (q_0 x) + r_0(t) x(t) + \right. \\ \left. + \int_0^t K_0(t, s) x(s) ds + \sum_{j=1}^n \left[ \frac{d}{dt} (q_j(t) x(t-r_j(t))) + \right. \right. \\ \left. \left. + r_j(t) x(t-r_j(t)) + \int_0^{t-r_j(t)} K_j(t, s) x(s-r_j(s)) ds \right] \right\} = f(t) \quad (1)$$

Card 1/2



L 54902-65

ACCESSION NR: AR5016326

with boundary conditions

$$x(0) = x(1) = 0,$$

$$x(t) = 0, t < 0. \quad (2)$$

is studied. Galerkin's method is used to solve problem (1), (2). In the case when in (1)

$$q_0(t) - q_1(t) = f_2(t) = 0 \quad (j=1, \dots, v; t=2, \dots, v).$$

the process of Yu. D. Sokolov is constructed for approximate solution of the boundary value problem (1), (2). Conditions under which the process of successive approximations of Yu. D. Sokolov converges absolutely and uniformly in the region  $[0, 1]$  to the solution of the boundary value problem (1), (2) are investigated. Bibliography 4 entries. I. Shelikhova

SUB CODE: MA

ENCL: CO

Card

2/2

ACC NR: AR6035560

SOURCE CODE: UR/0044/66/000/009/B069/B069

AUTHOR: Barataliyev, K. B.

TITLE: Approximate solution of linear two-dimensional integral equations with a deviating argument by the method of Yu. D. Sokolov

SOURCE: Ref. zh. Matematika, Abs. 9B350

REF SOURCE: Sb. Materialy XIII Nauchn. konferentsii prof. -prepodavat. sostava Fiz. -matem. fak. Kirg. un-t. Sekts. matem. Frunze, 1965, 16-18

TOPIC TAGS: linear integral equation, approximate solution, least square method

ABSTRACT: For an approximate solution of the integral equation

$$u(t, x) = f(t, x) + \int_0^T ds \int_0^h \sum_{n=0}^p K_f(t, x, s, \xi) u(\tau_f(s), \xi) d\xi,$$

where  $\tau_0(t) = t$  and the function  $u(t, x)$  is known at  $t \leq t_0$ , it is proposed that a certain combination of the methods of averaging of functional corrections and the method of least squares be applied.

Card 1/2

UDC: 517.948.34:518

ACC NR: AR6035560

Under additional assumptions, the convergence of this method is proved.  
I Daugavet. [Translation of abstract]

[DW]

SUB CODE: 12/

Card 2/2

ACC NR: AR6035561 SOURCE CODE: UR/0044/66/000/009/B070/B070

AUTHOR: Krivoshein, L. Ye.; Barataliyev, K. B.

TITLE: Approximate solution of two-dimensional nonlinear integro-differential equations with a deviating argument

SOURCE: Ref. zh. Matematika, Abs. 9B357

REF SOURCE: Sb. Materialy XIII Nauchn. konferentsii prof. -prepodavat. sostava Fiz. -matem. fak. Kirg. un-t. Sekts. matem. Frunze, 1965, 50-53

TOPIC TAGS: approximate solution, integrodifferential equation, nonlinear integrodifferential equation

ABSTRACT: The application of the method of averaging of functional corrections for an approximate solution of nonlinear integro-differential equation

$$u(t, x) = f(t, x) + \int_{t_0}^T ds \int_a^b G(t, x, s, \xi) F[s, \xi, u(\varphi_0(s), \xi), \dots, u(\varphi_p(s), \xi), u'_\xi(\varphi_0(s), \xi), \dots, u'_\xi(\varphi_p(s), \xi))] d\xi.$$

UDC: 517.948.34:518

Card 1/2

ACC NR: AR6035561

where  $\varphi_0(t) \equiv t$ ,  $\varphi_l(t) < t$  at  $l = 1, 2, \dots, p$  and the function  $u(t, x)$  is known if  $t \leq t_0$ , is investigated. Under some additional assumptions, the convergence of the method is proved. I. Daugavet. [Translation of abstract] [DW]

SUB CODE: 12/

Card 2/2

BEREZHAINI, V.M.; BARATASHVILI, I.B.

Experiments in the production of nitrided manganese. Trudy Inst.  
met. AN Gruz. SSR 11:69-76 '61. (MIRA 14:10)  
(Manganese)  
(Case hardening)

S/020/61/139/006/014/022  
B103/B101

AUTHORS: Baratashvili, I. B., Fedotov, V. P., Samarin, A. M.,  
Corresponding Member AS USSR, and Berezghiani, V. M.

TITLE: Solubility of nitrogen in liquid manganese

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 139, no. 6, 1961, 1354-1355

TEXT: Since the data published on the solubility of nitrogen in liquid manganese are contradictory, the authors studied this problem by the method of dynamic equilibrium established between liquid manganese and nitrogen or a nitrogen - hydrogen mixture. The activity of  $N_2$  in the metal corresponds to the partial pressure of  $N_2$  in the gaseous phase at the instant of equilibration. The nitrogen content corresponding to the equilibrium was determined in a specimen of the solid, rapidly cooled metal. Methods and apparatus were described by A. M. Samarin, V. P. Fedotov (Tr. IV Konfer. po fiziko-khimicheskim osnovam proizvodstva stali (Proceedings of the 4th Conference on the Physicochemical Fundamentals of Steel Production) Izd. AN SSSR, 1960, p. 144). The metal

Card 1/3

Solubility of nitrogen in liquid ...

S/020/61/139/006/014/022  
B103/B101

equilibrium with  $N_2$  having a pressure of 1 atm. According to experimental data, the following relations are obtained for  $P_{N_2} = 1$  atm and  $f_N = 1$ :

$$\log K = \log [\% N] = 3010/T - 1.457; \quad (2);$$

$$\log K^0 = -13,780 + 6.65 T \quad (3).$$

There are 2 figures and 6 references: 3 Soviet and 3 non-Soviet.

ASSOCIATION: Institut metallurgii im. A. A. Baykova Akademii nauk SSSR  
(Institute of Metallurgy imeni A. A. Baykov, Academy of  
Sciences USSR)

SUBMITTED: April 29, 1961

Card 3/3



3/137/62/000/003/157/191  
A052/A101

AUTHORS: Baratashvili, I. B., Berezhiani, V. M.

TITLE: An investigation into the kinetics of the process of nitriding  
metallic manganese

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 100-101, abstract  
3I652 ("Soobshch. AN GruzSSR" 27, no. 2, 1961, 169-172, Russian)

TEXT: The kinetics of nitriding metallic Mn with molecular N has been investigated. The scheme of installation for studying the kinetics of nitriding is presented. With the increase of temperature the rate of nitriding increases sharply. For instance, to reach 4.4% N in the alloy at 850°C 180 minutes are needed whereas at 1,100°C less than 60 minutes. The nitriding of Mn at temperatures over 1,100°C leads to the sintering of Mn powder. As regards the problem of the effect of phase composition of the alloy on the process of N diffusion, the investigation has established a negative effect of multiphase structures on the kinetics of nitriding process. Optimum temperature conditions of nitriding by means of molecular N, which are recommended for working out the technology of nitrided Mn production, are temperatures of 900 - 1,000°C. There are

Card 1/2

S/020/61/140/002/022/023  
B130/E110

AUTHORS: Baranovskiy, I. B., Fedotov, V. P., Samarin, A. M., and  
Berezhnitskiy, V. M., Corresponding Member AS USSR

TITLE: Solubility of nitrogen in manganese-iron and manganese-  
silicon melts

PERIODICAL: Akademiya Nauk SSSR. Doklady, v. 140, no. 2, 1961, 123-125

TEXT: The solubility of nitrogen and nitrogen-hydrogen mixtures in Mn-Fe and Mn-Si melts is calculated by the method of dynamic equilibrium between melt and gaseous phase. Apparatus and method were the same as indicated by A. M. Samarin, V. P. Fedotov (Tr. IV Konfer. po fiziko-khimicheskim osnovam proizvodstva metall, Izd. AN SSSR, 1960, p. 144). The Fe and Si content changed during melting by 2-3%. Results of determination of the solubility of nitrogen are given in Figs. 1 and 2. From the experimental data, the dependence of the coefficient of nitrogen activity in Mn-Fe and Mn-Si melts on the Fe and Si concentration in the melts is given:

$$a_N^{Mn} = f_N[\%N]_{Mn}, \quad a_N^{Mn-Si(Fe)} = f_N[\%N]_{Mn-Si(Fe)} \quad (a).$$

Card 1/4

Solubility of nitrogen ...

S/020/61/140/002/022/023  
B130/B110

Thus, at constant pressure and constant temperature under equilibrium conditions,

$$a_N^{Mn} = a_N^{Mn-Si(Fe)}, \quad f_N[\%N]_{Mn} = f_N[\%N]_{Mn-Si(Fe)} \quad (b).$$

The solubility of nitrogen in liquid Mn at  $p_{N_2} = 1$  atm and  $T = \text{const}$  is

taken as standard. Then,  $f'_N = 1$  and  $f_N = \frac{[\%N]_{Mn}}{[\%N]_{Mn-Si(Fe)}} \quad (1)$ . Si causes

a stronger decrease of N solubility than Fe. Also an increase in the temperature of the melt reduces the N solubility (Fig. 4).  $\log K$  and  $\Delta F^\circ$  were calculated from the experimental data given in Fig. 4. Calculation results are given in Table 1. There are 4 figures, 1 table, and 3 Soviet references.

ASSOCIATION: Institut Metallurgii im. A. A. Baykova Akademii nauk SSSR  
(Institute of Metallurgy imeni A. A. Baykov of the Academy of Sciences USSR)

SUBMITTED: May 11, 1961

Card 2/6

S/808/61/011/000/001/006

AUTHORS: Bereziani, V.M., Baratashvili, I.B.

TITLE: Experimental preparation of nitrided Manganese.

SOURCE: Akademiya nauk Gruzinskoy SSR. Institut metallurgii. Trudy, v.1, 1961, 69-76.

TEXT: The paper describes an experimental investigation, the prime objective of which is the introduction of N as a powerful stabilizer of austenite and as an antiprecipitant of phases that might impair the technological and operational properties of a steel. The more direct practical objective of the investigation was the preparation of a N-containing charge material for the making of stainless steel. The present investigation constitutes a continuation of work originally proposed by A.M.Samarin, corresponding member, AS USSR. The investigation was planned along two principal paths: (a) The preparation of nitrided Mn by the aluminothermic introduction into the charge of N-containing materials; (b) the preparation of nitrided Mn by means of the nitriding of the metal in the solid state. A preliminary investigation, which is described in detail, indicated that the aluminothermic method does not permit the preparation of an alloy with an adequately elevated N content, and the further investigation, therefore, was limited to the nitriding of the

Gard 1/3

Experimental preparation of nitrided Manganese.

S/808/61/011/000/001/006

alloy in its solid state. The paper describes the test equipment which consists of a tubular furnace, a retort made of refractory steel placed within the furnace and equipped with in- and outlets for the N-containing gas, a gas-drier in the inlet line, a discharge meter, and a dissociation meter in the outlet line for the measurement of the degree of dissociation when ammonia is employed as a gas. The metal utilized was finely comminuted metallic Mn with a high degree of dispersivity, exhibiting a large specific surface which facilitated the nitriding process, but which caused considerable trouble subsequently, since the smelting of highly dispersed particulate matter results in ready oxidation and much carry-off in the slag and in the gases. The investigation, therefore, continued with the use of electrolytic Mn in the form of lamellae 1-2 mm thick and 5-20 and more mm diam. This material is highly porous and possesses a great specific surface and, yet, is eminently suitable for the preparation of high-grade alloys. The nitriding of the Mn by means of ammonia was performed at various temperatures; an optimal T was found within the 660-680°C range. The nitriding was continued for 1-10 hrs without attaining a maximum N content. At the present time the greatest N content in steels does not exceed 0.4-0.5%. To attain this value, the Mn needs but 6% N content, whereas the present tests went up to 10% N content. It would appear possible to attain the desired result within 3-4 hrs by a more intensive process achieved by the use of ammonia with a controlled degree of dissociation. The magnetic properties of the nitrided Mn were

Card 2/3

Experimental preparation of nitrided Manganese.

S/808/61/011/000/001/006

tested, and only a weak magnetism, indicating that the nitrided metal possesses a heterogeneous structure, was found. An investigation of the delivery of N introduced with the Mn during the smelting of Cr-Mn steel showed that the acceptance coefficient of the Mn-borne N in the steel is 0.75-0.85 and, hence, quite elevated. There are 3 figures, 6 tables, and 6 references (2 Russian-language Soviet, 3 English-language originals, of which 2 are in Russian translation, and one German-language).

Card 3/3

BEREZHIANI, V.M.; BARATASHVILI, I.B.

Effect of the vapor phase pressure on the manganese nitriding  
process. Trudy Inst.met. AN Gruz. SSR 12:93-101 '62.

(MIRA 15:12)

(Case hardening) (Vapor pressure) (Manganese)

1. KAZHIANI, V.M., SUKHOVA, G.Ya.; AKAZIANI, L.A. KFFI "ADZ" 1979.

Results of industrial experiments on the production of refined manganese.  
Study Inv. not. All. Acad. SSR 1979-1980. (MMA 1719)



BARATASHVILI, Iosif Grigor'yevich, kand. sel'khoz. nauk;  
SABASHVILI, M.N., akademik, red.

[Zoning of soil according to agricultural use in the South  
Ossetian Autonomous Province] Agropochvennoe raionirovanie  
avtonomnoi oblasti Iugo-Osetii. TSkhinvali, Gosizdat Iugo-  
Osetii, 1962. 125 p. (MIRA 17:2)

1. Akademiya nauk Gruzinskoy SSS (for Sabashvili).

BARATASHVILI, Iosif Grigor'evich

[Soil and its fertility] Pochva i ee plodorodie. Tbilisi,  
Izd-vo Akad. nauk Gruzinskoi SSR, 1956. 42 p.

(MIRA 16:1)

(Soil fertility)

MIKAVA, G.G.; BARATASHVILI, N.N.

Effect of neuro-stimulators and neuroplegic and curariform substances on the functional recovery following the removal of extracerebral tumors. Vop. neirokhir. no.1:53-55 '65.

(MIRA 18:10)

1. Institut klinicheskoy i eksperimental'noy nevrologii  
(direktor-deystvitel'nyy chlen AMN SSSR prof. P.M. Saradzhishvili)  
AMN SSSR, Tbilisi.

KURASHVILI, B.Ye., otv. red.; BARATASHVILI, T.A., red.;  
GODERDZISHVILI, G.I., red.; GORDADZE, G.N., red.;  
ELIAVA, I.Ya., red.; ZENAYSHVILI, P., red.; KAMALOV,  
N.G., red.; GHUBABRIYA, I.T., red.; AVALIANI, N.M., red.  
izd-va; BOKERIYA, E.N., tekhn. red.

[Materials of the Scientific Session of Helminthologists of  
the Transcaucasian Republics on Problems of Helminthofauna  
and Control of Helminthiasis in Man, Farm Animals and  
Plants] Materialy Nauchnoi sessii gel'mintologov respublik  
Zakavkaz'ia po voprosam gel'mintofauny i bor'by s gel'minto-  
zami cheloveka, sel'skokhoziaistvennykh zhivotnykh i raste-  
niy, Tiflis, 1961. Tbilisi, Izd-vo AN Gruz.SSR, 1963. 220 p.

(MIRA 16:11)

1. Nauchnaya sessiya gel'mintologov respublik Zakavkaz'ya  
po voprosam gel'mintofauny i bor'by s gel'mintozami chelo-  
veka, sel'skokhozyaystvennykh zhivotnykh i rasteniy, Tiflis,  
1961.

(Transcaucasia--Helminthology)

BARATASHVILI, V.

[Around the world] Vokrug sveta. Minsk, Gos.izd-vo BSSR,  
1956. 190 p. (MIRA 16:4)  
(Voyages around the world)

BARATASHVILI, V.

[From the Baltic Region to the Pacific Ocean] Ot Baltiki  
do Tikhogo okeana; sbornik. Kalinin, Kaliningradskoe izd-  
vo, 1962. 91 p.  
(MIRA 17:9)

BARATA-SHIVIL, V. B.

115

PHASE I BOOK EXPLOITATION

SOV/5411

Konferentsiya po fiziko-khimicheskim osnovam proizvodstva stali. 5th,  
Moscow, 1959.

Fiziko-khimicheskiye osnovy proizvodstva stali; trudy konferentsii  
(Physicochemical Bases of Steel Making; Transactions of the  
Fifth Conference on the Physicochemical Bases of Steelmaking)  
Moscow, Metallurgizdat, 1961. 512 p. Errata slip inserted.  
3,700 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut metallurgii imeni  
A. A. Baykova.

Responsible Ed.: A. M. Samarin, Corresponding Member, Academy  
of Sciences USSR; Ed. of Publishing House: Ya. D. Rozentsveyg.  
Tech. Ed.: V. V. Mikhaylova.

Card 1/16

Physicochemical Bases of (Cont.)

SOV/5411

PURPOSE: This collection of articles is intended for engineers and technicians of metallurgical and machine-building plants, senior students of schools of higher education, staff members of design bureaus and planning institutes, and scientific research workers.

COVERAGE: The collection contains reports presented at the fifth annual convention devoted to the review of the physicochemical bases of the steelmaking process. These reports deal with problems of the mechanism and kinetics of reactions taking place in the molten metal in steelmaking furnaces. The following are also discussed: problems involved in the production of alloyed steel, the structure of the ingot, the mechanism of solidification, and the converter steelmaking process. The articles contain conclusions drawn from the results of experimental studies, and are accompanied by references of which most are Soviet.

Card 2/16



3

|                                                                                                                       |          |     |
|-----------------------------------------------------------------------------------------------------------------------|----------|-----|
| Physicochemical Bases of (Cont.)                                                                                      | SOV/5411 |     |
| Arc Furnace Induced by Blowing Oxygen Into the Metal                                                                  |          | 149 |
| Shul'te, Yu. A., and M. I. Kurbatov. The Effect of Manufacturing Parameters on the Properties of High-Manganese Steel |          | 159 |
| Iodkovskiy, S. A., and N. N. Sashchikhin. New Method of Making Austenitic Steels With a Given Quantity of Ferrite     |          | 167 |
| Suchil'nikov, S. I. Extracting Valuable [Ferroalloy] Elements During The Process of Their Production                  |          | 178 |
| Berezhiani, V. M., and V. B. Baratashvili. Investigating the Nitrous Manganese Production Processes                   |          | 184 |
| Zamoruyev, V. M. On the Distribution of Titanium Between the Metal and Slag                                           |          | 189 |

Card 8/16

BARATH, Z.

"Mechanical waveguides" by Martin R.Redwood. Reviewed by Z.Barath.  
Periodica polytechn electr 6 no.2:185-186 '62.

BETINA, V.; NEMEC, P.; DOBIAS, J.; BARATH, Z.

Cyanein, a new antibiotic from penicillium cyaneum. Folia microbiol.  
7 no.6:353-357 '62.

1. Department of Technical Microbiology and Biochemistry, Faculty of  
Chemistry, Slovak Technical University, Bratislava.  
(ANTIBIOTICS)

BARÁTFALVI, O.

# HUNG.

621.311.44.016.31 : 621.332

1448. The distribution of d.c. traction loads between parallel rectifier substations. O. BARÁTFALVI. *Elektrotechnika*, 47, No. 11, 343-52 (Nov., 1954) In Hungarian.

The fundamental theory of the distribution of d.c. traction loads between parallel rectifier stations is discussed. It is shown that results obtained for single load can be used for obtaining the aggregate load distribution of complex cases. Practical examples are worked out.

L. CSUROS

BARATFAIVY, O.

✓ 1091. A STUDY OF POWER SUPPLY SYSTEMS FOR D.C. 621.932 : 621.3.016.3  
RAILWAYS. O. Barátfaiv, O.  
Elektrotechnika, Vol. 48, No. 8, 270-8 (Sept., 1955). In  
Hungarian.  
EE A mathematical treatment is given and practical examples  
worked out of the load distribution on a traction system with  
voltage variations at the supply points. It is shown that volt-  
age regulation not exceeding values generally adopted can  
meet the load distribution to such an extent that a considerable  
over-rating of the feeding substations is required. Automatic  
voltage regulation at the substations by grid control could solve  
the problem.  
L. Csuros

BARATILVI, G.

Investigation of the power supply of DC railroads. p. 220. Vol 48, no. 3, Sept. 1955.  
ELEKTROTECHNIKA. Budapest, Hungary.

So: Eastern European Accession. Vol 5, no 4, April 1956

BAKATPALVY, O.

021.518.09  
1350. SELECTIVE EARTH-FAULT PROTECTION OF CABLE NETWORKS OPERATED WITH INSULATED NEUTRAL.  
O. Bakatpalvy.  
Elekrotechnika, Vol. 50, No. 4, 144-8 (April, 1957). In Hungarian.  
Voltage and current relations on a 3-phase system are surveyed under different earth-fault conditions. Performance features of protective schemes are discussed. A practical method is put forward for the determination of voltage conditions on cable networks. Conclusions are drawn on methods used in practice. L. Csarcs

KARATFALVI, O.

621.318.825 : 621.319.44  
1245. THE PROTECTION OF CAPACITORS FOR REACTIVE  
POWER COMPENSATION. O. Karatfalvi  
Elektrotechnika, Vol. 50, No. 1-2, 42-5 (Jan.-Feb., 1937).  
In Hungarian.  
An analytical treatment is given of the neutral displacement of  
a star-connected capacitor bank when failures occur in the elements.  
A protective method is described utilizing a neutral displacement  
voltage relay.  
L. Csuros

2

11

5011



1917211E.

EXCERPTA MEDICA Sec.13 Vol.1/1 Cardiovascular Jan 57

171. BARÁTH E. and TARJÁN P. Hyperton. Abt., János-Spít., Budapest. Klinische Untersuchungen über die Wirkungen von Veratrumalkaloiden bei Hypertonie. *Clinical investigations into the effect of veratrum alkaloids on hypertension* Schweiz. Med. Wschr. 1956, 86 4 (100—104) Graphs 3 Tables 1

Clinical experiments with i.m. injections of puroverin and maintenance treatment with veratrum confirmed that this causes a marked decrease in blood pressure and pulse frequency. Following experiments with 0.2-0.3 mg. puroverin i.m. peroral maintenance treatment was given with 0.5-1 tablet of puroverin every 3 hr. (later every 2 hr.), to daily doses of 6-8 tablets. In the refractory cases puroverin injections were given 3-4 times daily (0.2-0.3 mg. i.m.). In many cases the decrease in pressure and the bradycardia were associated with a marked decrease of the oscillatory waves. This is attributable to the decrease in stroke volume. Veratrum treatment improves the general condition and the ability to resume work. In 4 cases the ECG was improved, which was interpreted as a sign of improved coronary circulation and release of the myocardium. Purovin treatment often caused regression of visual disturbances caused by the hypertension. Large doses of puroverin should only be given under continuous supervision in view of the possibility of side-effects. Veratrum is a considerable improvement in the treatment of essential hypertension. Even malignant cases can be treated, especially cases of encephalopathy and hypertension with sclerosis of the arterial system. Successful treatment was reported in 71 out of 89 cases (80%). No veratrum treatment should be given in the case of arrhythmia and marked bradycardia. Other contraindications include severe cardiac decompensation and previous digitalis or strophanthin treatment, severe advanced cerebral sclerosis and progressive renal affections with renal insufficiency.

BARATH, E., prof.

Pharmacological response in occlusion mechanisms of the terminal  
vascular system. Ther.hung. 7:3-7 '59.  
(VASCULAR DISEASES PERIPHERAL)

BARATH, Gabor, okleveles gepeszmernok

The principle of the building box and the construction of  
the large openwork conveying belts. Banyaterv no. 17: 84-91  
D '63.

BARATH, Gy.

Országos Testnevelés-es Sportegészségügyi Intézet Kutató Lab. \*Az oxydáló fermentek aktivitásváltozása immunizálás alatt. Peroxidase and catalase activity and immunological processes KISFEL. ORVOSTUD. 1953, 5/6 (434-436) Graphs 1 Tables 1

Rats were immunized with typhoid H-antigen by the s.c. or i.v. route and the peroxidase and catalase activities of the blood were studied concurrently with the agglutination titre. The peroxidase activity very soon showed a considerable increase, followed by a decrease which coincided with a slight increase of catalase activity accompanying the appearance of antibodies. The findings are discussed.

Sandor - Paris

SO: EXCERPTA MEDICA - Section II, Vol. 7, No. 10

VARADY A., GRUBICH V. and BARÁTH Gy.

Forsch.-Lab., Inst. für Körperkult und Sportgesundh.\*Wesen, Budapest.

\*Gefäßfunktions-Untersuchungen an Sportlern. Examination of vascular function  
in sportsmen ACTA PHYSIOL. ACAD. SCIENT. HUNG. (Budapest) 1954, 5/suppl. (63-64)

SO: EXCERPTA MEDICA - SECTION II, Vol. 7, No. 10

*BARATH G.*

GRUBICH, Vilmos, dr.; BARATH, Gyorgy, dr.; VARADY, Arisztid, dr.

Functional examination of blood supply of the skin. Orv. hetil.  
95 no.33:898-903 Aug 54.

1. Az Orszagos Testnevelés- és Sportegészségügyi Intézet (igazgató-  
főorvos: Kovari Aladar dr.) Kutatólaboratóriumának (főorvos:  
Grubich Vilmos dr.) közleménye.

(SKIN, blood supply  
funct. exam.)

BARATH, Gyorgy.

Reflex mechanism of antigen stimulation effect. Kiserletes  
orvostud. 7 no.1:46-53 Jan 55.

1. Orszagos Testnevelés- és Sportegészségügyi Intézet Kutató  
Laboratoriuma.

(ANTIGENS AND ANTIBODIES

typhoid antigen H stimulation, reflex mechanism)

(NERVOUS SYSTEM, physiology

reflex mechanism in stimulation by typhoid antigen H)

BARATH, Istvan. okleveles geofizikusmernok

The role of geophysical deep boring in the identification questions of seams in the Diosgyor coal basin. Bany lap 96 no.6:384-392 Je '63.

1. Magyar Allami Eotvos Lorand Geofizikai Intezet Karottazs Gsoportja, Miskolc.



BARATH,Istvan, okleveles geofizikus-mernok

Seam numeration in the western Borsod Coal Basin. Bany lap  
98 no.1:20-24 Ja '65.

1. Lorand Eotvos Hungarian State Institute of Geophysics,  
Miskolc.

BARATH, J.

The tendency of dropsy in pregnancy. JENO BARATH AND KORNÉL MAGYAR. *Magyar Orvosi Arch.* 33, 264-7(1932).—An accelerated resorption of the intradermally administered NaCl can be observed in the last months of pregnancy; at the same time the protein content is changed (increase of the gross dispersed particles), and the colloid osmotic pressure is diminished. Observations of dropsies without any change in the renal functions suggest that these forms of dropsies in pregnancy are mainly caused by the increased water combining power of the tissues. H. LAUBER.

BARATH, J.

"Comparative investigations on the mechanism of the periphervasodilatory effect of hydergine" (in German).

SO: ACTA MEDICA (Hungary) 1952, Vol. III, No. 4.

ADIER, V.; BARATH, J.

Comparative studies on the mechanism of the effect of hydergin in dilating peripheral vessels. Acta med. hung. 3 no. 4:379-384 1952.  
(CML 24:2)

1. Of the First Medical Department of Janos Hospital, Budapest.

BARATH, J.; ADLER, V.

The effect of atropine and pilocarpine on kidney filtration; dechloridation by pilocarpine treatment. Orv. hetil. 93 no. 11 330-332 16 Mar 1952.  
(GLML 23:3)

1. Doctor for Barath; Academy Scholarship Collaborator for Adler.
2. First Internal Department (Head Physician --- Prof. Dr. Jenő Bardth; Director - Head Physician --- Prof. Dr. Tibor Bakács), János General Hospital.

ADLER, Vilmos, dr.; BARATH, Jeno, dr.

Present problems in treatment of hypertension and of diseases  
secondary to hypertension. Orv. hetil. 95 no.52:1429-1431 26 Dec 54.

1. A Janos Korhaz (igazgato-főorvos: Bakacs Tibor dr.) Hypertonia-  
osztályának (főorvos: Barath Jeno dr.) közleménye.  
(HYPERTENSION, ther.)

RENYI, L.; BARATH, J.; KISS, F.; BALINT, J.

New concepts on formation of cholecystopathies based on recent clinical and anatomical investigations. Acta med. hung. 7 no.3-4: 333-344 1955.

1. Hypertonie Abteilung des Janos-Krankenhauses, Budapest, und Anatomisches Institut der Medizinischen Universitat, Budapest.  
(GALLBLADDER, diseases)

BARATH, Jenő, dr.; TARJAN, Pongrácz, dr.

New trends in the treatment of diseases associated with hypertension. I. Veratrum alkaloid therapy. Orv.hetil. 96 no.16:430-434 17 Apr 55.

1. A Janos Korhaz Hypertonia Osztalanak (igazgato: Bakacs Tibor dr., főorvos: Barath Jenő dr.) közleménye.  
(HYPERTENSION, therapy,  
Veratrum alkaloids)  
(VERATRUM ALKALOIDS, therapeutic use,  
hypertension)



TARJAN, Pongracz, dr.; CSIPAK, Zsuzsanna, dr.; BARATH, Jeno, dr.

New trends in the treatment of hypertension. II. Experimental investigations on two new Hungarian preparations; Hexamethonium, N. 310. Orv. hetil. 96 no.17:468-471 24 Apr 55.

1. A Janos korhaz (igazgato: Bakacs, Tibor dr.) Hypertonia Osztalyanak (foorvos: Barath, Jeno dr.) kozlemenye.  
(HYPERTENSION, experimental,  
eff. of hexamethonium & ganglion blocking agent  
N 310.)  
(AUTONOMIC DRUGS, effects,  
ganglion blocking agent N 310 on exper. hypertension.)  
(MUSCLE RELAXANTS, effects,  
hexamethonium on exper. hypertension.)

ogy, Toxicology. Cardiovascular Drugs. V

ur-Biol., No 9, 1958, 42404.

arath, J.; Tarjan, P.

Not Given.

: New Methods of Hypertension Therapy.

Pub: Orv. Netilap, 1956, 97, No 10, 273-276.

Abstract: Four hundred seven patients were successfully treated with injections of a 10% solution of NaI in doses of 6-10 ml daily. Together with NaI the patients received daily doses of puroverin, serpasil, apresoline or adelphan. In some cases, combination of drugs were prescribed. The best results were noted in hypertensives with severe changes in the fundi and in hypertension of arteriosclerotic origin. The advantages of Na method: side effects are very rare, less puroverin and serpasil is re-

Card 1/2

HUNGARY / Pharmacology, Toxicology. Cardiovascular Drugs. V

Abs Jour: Ref Zhur-Biol., No 9, 1958, 42404.

Abstract: quired, iodine decreased brady-cardia, caused by  
serpasil. -- I. Budavari

Card 2/2

38

MAROS, Katalin, Dr.; MAYIATH, Jozsefne; KONIG, Marta, Dr.; BARATH, Jeno, Dr.

Experimental studies on the changes of blood proteins and lipids following intravenous iodine therapy in arteriosclerosis. Orv. hetil. 99 no.18:597-600 4 May 58.

1. A Janos Korhaz (igazgato: Tako Jozsef dr.) III. sz. Belosztalyanak (foorvos: Barath Jeno dr.) kozlemenye.

(IODIDES, ther. use

sodium iodide, intravenous, in arteriosclerosis, eff. on blood lipids & proteins (Hun))

(ARTERIOSCLEROSIS, ther.

sodium iodide, intravenous, eff. on blood lipids & proteins (Hun))

(BLOOD PROTEINS, in various dis.

arteriosclerosis, eff. of intravenous sodium iodide ther. (Hun))

(LIPIDS, in blood

in arteriosclerosis, eff. of intravenous sodium iodide ther. (Hun))

BARATH, Jeno, Dr.: FARJAN, Pongracz, Dr.

Experimental studies on comparative hypotensive properties of  
a new diuretic drug (dihydrochlorothiazide). Orv. hetil. 100 no.47:  
1692-1696 Nov 22, 59.

1. A Budapesti Janos Korhaz (igazgato: Tako Jozsef dr.) Hypertonia  
Osztalyanak (foorvos: Barath Jeno dr.) kozlemenye.

(DIURETICS, pharmacol.) (ANTIHYPERTENSIVE AGENTS, pharmacol.)

BARATH, Jeno, dr.; TARJAN, Pongrac, dr.

New trends in the drug treatment of diseases with elevated blood pressure. Orv. hetil. 102 no.27:1271-1276 2 Je '61.

1. Janos korhaz, Budapest, Hypertonia Osztaly.

(ANTIHYPERTENSIVE AGENTS ther)

HUNGARY

BARATH, Jeno, Dr; Janos Hospital, Hypertension Ward (Janos Korman, Hypertoniaosztaly), Budapest.

"Present-Day Tasks of Socialistic Medicine. The Significance of Expositive and Reactive Factors in the Prophylaxis of Cardiovascular-Hypertensive Diseases."

Budapest, Orvosi Hetilap, Vol 104, No 34, 25 Aug 1963, pages 1611-1612.

Abstract: The author points out the great increase of life expectancy among children, mainly due to the progress made in infectious diseases, while the life expectancy of the 65 year-old people increased only very slightly. This is mainly due to the sclerotic-hypertensive vascular and other degenerative diseases of the aged and, frequently, of middle aged men. While an increasing number of the patients are in their late fifties or older, the young physician learns little of their special problems and special needs in treatment. Although the mortality from cardiovascular diseases has skyrocketed, little attention is paid to the existence of external factors which play a role in the functional phase of the disease, before the morphological changes take their course. The investigation of harmful external stresses, and the problem of inherited and acquired susceptibility are very urgent. Guidance to a healthful mode of living and nutrition are also of great importance in the prophylaxis of hypertension and coronary diseases. No references.

1/1

BARATH, Jozsefne

Children's work committees in cultural homes. Munka 10 no.1:21 Ja '60.

1. Szakszervezetek Országos Tanácsa kulturális osztályának munkatársa.



BARATH, Jozsef

Worries of socialist brigades. Munka 10 no.3:30-31 Mr '60.

1. "Nepszava" munkatarsa.

BARATH, Jozsefne

Our cultural homes and social workers. Munka 10 no.4:14-15 Ap '60.

1. Szakszervezetek Orszagos Tanacsa kulturalis osztalya munkatarsa.

BARATH, Jozsefne

Lessons from a trade union children's exhibition. Munka 10 no.6:  
18 Je '60.

1. Szakszervezetek Országos Tanácsa kulturális osztályának munkatársa.

BARATH, Jozsefno

Worker-artist relations in the German Democratic Republic. Munka 11  
no.8:18 Ag '61.

1. Szakszervezetek Orszagos Tanacsa kulturalis osztalyanak alosztaly-  
vezetoje.

(Germany, East—Trade unions)

(Germany, East—Art)

BARATH, Zoltan, tanarseged; SOO, Rezso, dr., akadémikus; KARPATI, Zoltan, dr., tanszékvezető egyetemi tanár, a biológiai tudományok doktora; TERPÓ, Andras, dr., egyetemi docens, a biológiai tudományok kandidátusa

Flora investigation in noncultivated vineyards. Földrajzi ert 12 no.3:341-356 '63.

1. Kertészeti és Szőlészeti Főiskola Kővenytani Tanszéke (for Barath and Karpati).

NEMEC, P.; BARATH, Z.; BETINA, V.; KUTKOVA, Marta

Antibiotic activity of fungi isolated from soil samples from Indonesia. Folia microbiol. (Praha) 9 no.6:383-386 N '64.

1. Department of Technical Microbiology and Biochemistry, Faculty of Chemistry, Slovak Technical College, Department of Microbiology, Institute of Biology, Slovak Academy of Sciences, Bratislava.

BARATINSKAYA, G.N. [deceased]

Diurnal variation of the possibility of precipitation in the  
Caucasus. Uch.zap.LGU no.269:135-140 '59. (MIRA 12:6)  
(Caucasus--Precipitation (Meteorology))

BARATOV, A., kand.tekhn.nauk

New types of synthetic rubber. Pozh.delo 6 no.10:11-12 0 '60.  
(MIRA 13:10)

(Rubber industry--Fire and fire prevention)

(Rubber, Synthetic)



BARTOV, A., kand.tekhn.nauk

Effect of temperature on the explosivity limits. Pozh. delo  
6 no. 11:11-12 N '60. (MIRA 13:12)  
(Explosions)

10 6000 1327

33716  
S/167/62/000/001/003/004  
D299/D304

AUTHOR: Baratov, A.

TITLE: On the stability of rectangular plates

PERIODICAL: Akademiya nauk UzSSR. Izvestiya. Seriya tekhnicheskikh nauk. No. 1, 1962, 38-50

TEXT: Stability is considered of a rectangular plate, compressed in one direction and elongated in the other (perpendicular to the first). The effect is ascertained which the ratio of the sides and that of load intensities have on the stability. The problem is solved by the method of finite differences. First, von Karman's equation is transformed to dimensionless variables and then to finite-difference equations, viz.: X

Card 1/5

On the stability ...

33706  
S/167/62/000/001/003/000  
D299/D304

$$\begin{aligned} & 2(3\lambda^4 + 4\lambda^2 + 3)\zeta_l - 4(\lambda^2 + 1)[(\zeta_k + \zeta_l) + \lambda^2(\zeta_m + \zeta_n)] + \\ & + 2\lambda^2(\zeta_0 + \zeta_p + \zeta_q + \zeta_r) + (\zeta_s + \zeta_t) + \lambda^4(\zeta_u + \zeta_v) = \\ & = \frac{h^2 \lambda a^3}{D} \left[ \sigma_\xi (\zeta_k - 2\zeta_l + \zeta_l) + \sigma_\eta \lambda^2 (\zeta_m - 2\zeta_l + \zeta_n) + \right. \\ & \left. + \frac{\lambda \tau_{\xi\eta}}{2} [(\zeta_0 + \zeta_p) - (\zeta_q + \zeta_r)] \right]. \end{aligned}$$

(2.4)

where  $\lambda$  is related to the linear dimensions  $a$  and  $b$  of the plate and to the mesh size;  $h$  denotes the thickness and  $D$  the rigidity. The critical compressive stress which leads to loss of stability, is expressed by

Card 2/5

33706

S/167/62/000/001/003/004  
D299/D304

On the stability ...

$$\sigma_{cr} = K_{cr} \frac{\eta^2 D}{b^2 h} \quad (2.5)$$

where  $K_{cr}$  is the coefficient of stability (a numerical coefficient). The approximate solution of the stability problem is considered for various types of loading. Thus, uniform loading in only one direction is considered (case a), uniform loading in all directions (case b), etc. Further, 2 particular cases are considered: I) with  $\lambda_1 = 1$  and  $\lambda \neq 1$ , one obtains the equation for a square plate with a rectangular regular grid, II) with  $\lambda_1 \neq 1$  and  $\lambda = 1$ , one obtains the equation for a rectangular plate with a square grid. The boundary conditions are also expressed in dimensionless form. Eq. (2.4) yields a system of n-linear algebraical equations. This system can be expressed in matrix form. The solution of the problem reduces to determining

$$|\mu|_{\max} = \frac{1}{|\lambda|_{\min}} \quad (4.6)$$

Card 3/5